

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims

1. (currently amended) A device for vapor deposition of vertically aligned regions of a substrate, comprising:
 - a melting crucible having a crucible heater for melting and vaporizing material poured into the melting crucible; and
 - a nozzle pipe for deflecting the vapor flowing out of the crucible horizontally toward the substrate, the nozzle pipe comprising:
 - a top that is sealable
 - a lateral surface;
 - a horizontal vapor outlet in its lateral surface;
 - a coaxial filling opening positioned substantially on an upper end of the nozzle pipe;
 - a sealing mechanism positioned above the filling opening for selective sealing of the filling opening; and
 - a pipe heater which is independent of the crucible heater;
- wherein the nozzle pipe is placed from above the melting crucible.
2. (previously presented) The vapor deposition device of Claim 1, further comprising a temperature sensor in the region of the melting crucible and a temperature sensor in the region of the nozzle pipe for regulating the output of the crucible heater and the pipe heater, respectively.
3. (previously presented) The vapor deposition device of Claim 1, wherein the nozzle pipe engages the melting crucible with a diameter taper on its lower end.
4. (currently amended) The vapor deposition device of Claim 1, wherein the nozzle pipe further comprises a taper shaped like a truncated cone on its upper end; a coaxial filling

opening; and wherein the sealing mechanism is a plunger[[],] having an adjustable height for selective engagement with the coaxial filling opening from above.

5. (previously presented) The vapor deposition device of Claim 1, wherein the nozzle pipe is enclosed concentrically by multiple reflectors, the reflectors comprise a vapor passage window in the region of the vapor outlet.
6. (previously presented) The vapor deposition device of Claim 5, wherein the reflectors are externally enclosed by a vaporizer housing having an outside, the vaporizer housing comprising cooling pipes on the outside and an exhaust opening in the region of the vapor passage window and the vapor outlet.
7. (previously presented) The vapor deposition device of Claim 6, wherein the cooling pipes are aligned in a meander shape in the region of the nozzle pipe and have long pipe sections running in a lengthwise direction along the vaporization device, the cooling pipes are alternately connected to one another above and below by a short pipe section in each case.
8. (previously presented) The vapor deposition device of Claim 6, wherein the cooling pipes lead in a spiral shape around the vaporizer housing in the region of the melting crucible.
9. (previously presented) The vapor deposition device of Claim 1, wherein the vapor outlet in the nozzle pipe is formed by multiple holes positioned over one another.
10. (previously presented) The vapor deposition device of Claim 1, wherein the melting crucible and the nozzle pipe are made of graphite.
11. (currently amended) A device for vapor deposition of vertically aligned regions of a substrate, comprising:
a melting crucible having a crucible heater for melting and vaporizing material poured into the melting crucible; and

a nozzle pipe for deflecting the vapor flowing out of the crucible horizontally toward the substrate, the nozzle pipe comprising:

- a top that is sealable;
- a lateral surface;
- a horizontal vapor outlet in its lateral surface;
- a coaxial filling opening positioned substantially on an upper end of the nozzle pipe;
- a sealing mechanism positioned above the filling opening for selective sealing of the filling opening, whereby, when engaged, the sealing mechanism holds the upper end of the nozzle pipe in coaxial alignment with the melting crucible; and
- a pipe heater which is independent of the crucible heater;

wherein the nozzle pipe is placed from above the melting crucible and is enclosed concentrically by multiple reflectors, the reflectors comprise a vapor passage window in the region of the vapor outlet.

12. (currently amended) A device for vapor deposition of vertically aligned regions of a substrate, comprising:

a melting crucible having a crucible heater for melting and vaporizing material poured into the melting crucible; and

a nozzle pipe for deflecting the vapor flowing out of the crucible horizontally toward the substrate, the nozzle pipe comprising:

- a top that is sealable;
- a lateral surface;
- a horizontal vapor outlet in its lateral surface;
- a coaxial filling opening positioned substantially on an upper end of the nozzle pipe;
- a pipe heater which is independent of the crucible heater;
- a taper shaped like a truncated cone on its upper end; and
- a coaxial filling opening;

a plunger having an adjustable height for selective engagement with the coaxial filling opening from above, whereby, when engaged, the plunger holds the upper end of the nozzle pipe in coaxial alignment with the melting crucible; wherein the nozzle pipe is placed from above the melting crucible.

13. (new) The vapor deposition device of Claim 1, wherein, when engaged, the sealing mechanism holds the upper end of the nozzle pipe in coaxial alignment with the melting crucible.

14. (new) A device for vapor deposition of vertically aligned regions of a substrate, comprising:

a melting crucible having a crucible heater for melting and vaporizing material poured into the melting crucible;

an elongate nozzle pipe placed from above the melting crucible for deflecting the vapor flowing out of the crucible horizontally toward the substrate, the nozzle pipe comprising:

a lateral surface;

a horizontal vapor outlet comprising a plurality of holes therein the lateral surface; and

a pipe heater which is independent of the crucible heater;

a plurality of reflectors concentrically enclosing the nozzle pipe, the reflectors comprising a vapor passage window in the region of the vapor outlet; and

a vaporizer housing externally enclosing the reflectors, the vaporizer housing comprising a plurality of external cooling pipes extending substantially the elongate length of the nozzle pipe and an exhaust opening, wherein the exhaust opening is in the region of the vapor passage window and the vapor outlet.

15. (new) The vapor deposition device of Claim 14, further comprising a temperature sensor in the region of the melting crucible and a temperature sensor in the region of the nozzle pipe for regulating the output of the crucible heater and the pipe heater, respectively.

16. (new) The vapor deposition device of Claim 14, wherein the nozzle pipe engages the melting crucible with a diameter taper on its lower end.
17. (new) The vapor deposition device of Claim 14, wherein the nozzle pipe further comprises a taper shaped like a truncated cone on its upper end and wherein the sealing mechanism is a plunger, having an adjustable height for selective engagement with the coaxial filling opening from above.
18. (new) The vapor deposition device of Claim 14, wherein the cooling pipes are aligned in a meander shape in the region of the nozzle pipe and have long pipe sections running in a lengthwise direction along the vaporization device, the cooling pipes are alternately connected to one another above and below by a short pipe section in each case.
19. (new) The vapor deposition device of Claim 14, wherein the cooling pipes lead in a spiral shape around the vaporizer housing in the region of the melting crucible.
20. (new) The vapor deposition device of Claim 14, wherein the vapor outlet in the nozzle pipe is formed by multiple holes positioned over one another.
21. (new) The vapor deposition device of Claim 14, wherein the melting crucible and the nozzle pipe are made of graphite.
22. (new) The vapor deposition device of Claim 14, wherein the nozzle pipe is heated a predetermined temperature gradient above the temperature of the crucible and wherein the predetermined temperature gradient is about 200 degrees Celsius.
23. (new) The vapor deposition device of Claim 14, further comprising a coaxial filling opening positioned substantially on an upper end of the nozzle pipe and a sealing mechanism positioned above the filling opening for selective sealing of the filling opening.

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24. (new) The vapor deposition device of Claim 14, wherein the material is metallic.